

PK



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P#15

RAW SEQUENCE LISTING

DATE: 10/03/2002 8.6

PATENT APPLICATION: US/09/674,743B

TIME: 10:37:48

Input Set : A:\pf0509usn\_subseqlist.txt

Output Set: N:\CRF4\10032002\I674743B.raw

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MAR 28 2003

TECH CENTER 1600/2900

```

1 <110> APPLICANT: HILLMAN, Jennifer L.
2   BANDMAN, Olga
3   LAL, Preeti
4   YUE, Henry
5   REDDY, Roopa
6   TANG, Y. Tom
7   GERSTIN, Edward H.
8   ARVIZU, Chandra
9   BAUGHN, Mariah R.
10  AZIMZAI, Yalda
11  LU, Dyung Aina M.
13 <120> TITLE OF INVENTION: Human Transcriptional Regulator Molecules
15 <130> FILE REFERENCE: PF-0509 USN
17 <140> CURRENT APPLICATION NUMBER: 09/674,743B
C--> 18 <141> CURRENT FILING DATE: 2002-09-23
19 <150> PRIOR APPLICATION NUMBER: PCT/US99/09935
21 <151> PRIOR FILING DATE: 1999-05-04
23 <150> PRIOR APPLICATION NUMBER: 60/084,254
24 <151> PRIOR FILING DATE: 1998-05-04
26 <150> PRIOR APPLICATION NUMBER: 60/095,827
27 <151> PRIOR FILING DATE: 1998-08-07
29 <150> PRIOR APPLICATION NUMBER: 60/102,745
30 <151> PRIOR FILING DATE: 1998-10-02
32 <160> NUMBER OF SEQ ID NOS: 130
33 <170> SOFTWARE: PERL Program
35 <210> SEQ ID NO: 1
36 <211> LENGTH: 155
37 <212> TYPE: PRT
38 <213> ORGANISM: Homo sapiens
40 <220> FEATURE:
41 <221> NAME/KEY: misc_feature
42 <223> OTHER INFORMATION: Incyte ID No: 001106CD1
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47 Ser Cys Phe Leu Arg Leu Gly Arg Ser Thr Leu Leu Glu Leu Glu
48   20           25           30
49 Pro Ala Gly Arg Pro Cys Ser Gly Arg Thr Arg His Arg Ala Leu
50   35           40           45
51 His Arg Arg Leu Val Ala Cys Val Thr Val Ser Ser Arg Arg His
52   50           55           60
53 Arg Lys Glu Ala Gly Arg Gly Arg Ala Glu Ser Phe Ile Ala Val
54   65           70           75

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55 Gly Met Ala Ala Pro Ser Met Lys Glu Arg Gln Val Cys Trp Gly
56      80      85      90
57 Ala Arg Asp Glu Tyr Trp Lys Cys Leu Asp Glu Asn Leu Glu Asp
58      95     100     105
59 Ala Ser Gln Cys Lys Lys Leu Arg Ser Ser Phe Glu Ser Ser Cys
60     110     115     120
61 Pro Gln Gln Trp Ile Lys Tyr Phe Asp Lys Arg Arg Asp Tyr Leu
62     125     130     135
63 Lys Phe Lys Glu Lys Phe Glu Ala Gly Gln Phe Glu Pro Ser Glu
64     140     145     150
65 Thr Thr Ala Lys Ser
66     155

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68 &lt;210&gt; SEQ ID NO: 2

69 &lt;211&gt; LENGTH: 152

70 &lt;212&gt; TYPE: PRT

71 &lt;213&gt; ORGANISM: Homo sapiens

73 &lt;220&gt; FEATURE:

74 &lt;221&gt; NAME/KEY: misc\_feature

75 &lt;223&gt; OTHER INFORMATION: Incyte ID No: 004586CD1

77 &lt;400&gt; SEQUENCE: 2

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80 Leu Leu Val Tyr Asp Met Asn Leu Arg Glu Met Glu Asn Tyr Glu
81      20      25      30
82 Lys Ile Tyr Lys Glu Ile Glu Cys Ser Ile Ala Gly Ala His Glu
83      35      40      45
84 Lys Ile Ala Glu Cys Lys Lys Gln Ile Leu Gln Ala Lys Arg Ile
85      50      55      60
86 Arg Lys Asn Arg Gln Glu Tyr Asp Ala Leu Ala Lys Val Ile Gln
87      65      70      75
88 His His Pro Asp Arg His Glu Thr Leu Lys Glu Leu Glu Ala Leu
89      80      85      90
90 Gly Lys Glu Leu Glu His Leu Ser His Ile Lys Glu Ser Val Glu
91      95     100     105
92 Asp Lys Leu Glu Leu Arg Arg Lys Gln Phe His Val Leu Leu Ser
93     110     115     120
94 Thr Ile His Glu Leu Gln Gln Thr Leu Glu Asn Asp Glu Lys Leu
95     125     130     135
96 Ser Glu Val Glu Glu Ala Gln Glu Ala Ser Met Glu Thr Asp Pro
97     140     145     150

```

98 Lys Pro

101 &lt;210&gt; SEQ ID NO: 3

102 &lt;211&gt; LENGTH: 304

103 &lt;212&gt; TYPE: PRT

104 &lt;213&gt; ORGANISM: Homo sapiens

106 &lt;220&gt; FEATURE:

107 &lt;221&gt; NAME/KEY: misc\_feature

108 &lt;223&gt; OTHER INFORMATION: Incyte ID No: 052927CD1

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## RAW SEQUENCE LISTING

DATE: 10/03/2002

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TIME: 10:37:48

Input Set : A:\pf0509usn\_subseqlist.txt

Output Set: N:\CRF4\10032002\I674743B.raw

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111 Met Ala Glu Ala Ser Ala Ala Gly Ala Asp Ser Gly Ala Ala Val
112   1           5           10           15
113 Ala Ala His Arg Phe Phe Cys His Phe Cys Lys Gly Glu Val Ser
114           20           25           30
115 Pro Lys Leu Pro Glu Tyr Ile Cys Pro Arg Cys Glu Ser Gly Phe
116           35           40           45
117 Ile Glu Glu Val Thr Asp Asp Ser Ser Phe Leu Gly Gly Gly Gly
118           50           55           60
119 Ser Arg Ile Asp Asn Thr Thr Thr Thr His Phe Ala Glu Leu Trp
120           65           70           75
121 Gly His Leu Asp His Thr Met Phe Phe Gln Asp Phe Arg Pro Phe
122           80           85           90
123 Leu Ser Ser Ser Pro Leu Asp Gln Asp Asn Arg Ala Asn Glu Arg
124           95          100          105
125 Gly His Gln Thr His Thr Asp Phe Trp Gly Ala Arg Pro Pro Arg
126          110          115          120
127 Leu Pro Leu Gly Arg Arg Tyr Arg Ser Arg Gly Ser Ser Arg Pro
128          125          130          135
129 Asp Arg Ser Pro Ala Ile Glu Gly Ile Leu Gln His Ile Phe Ala
130          140          145          150
131 Gly Phe Phe Ala Asn Ser Ala Ile Pro Gly Ser Pro His Pro Phe
132          155          160          165
133 Ser Trp Ser Gly Met Leu His Ser Asn Pro Gly Asp Tyr Ala Trp
134          170          175          180
135 Gly Gln Thr Gly Leu Asp Ala Ile Val Thr Gln Leu Leu Gly Gln
136          185          190          195
137 Leu Glu Asn Thr Gly Pro Pro Pro Ala Asp Lys Glu Lys Ile Thr
138          200          205          210
139 Ser Leu Pro Thr Val Thr Val Thr Gln Glu Gln Val Asp Met Gly
140          215          220          225
141 Leu Glu Cys Pro Val Cys Lys Glu Asp Tyr Thr Val Glu Glu Glu
142          230          235          240
143 Val Arg Gln Leu Pro Cys Asn His Phe Phe His Ser Ser Cys Ile
144          245          250          255
145 Val Pro Trp Leu Glu Leu His Asp Thr Cys Pro Val Cys Arg Lys
146          260          265          270
147 Ser Leu Asn Gly Glu Asp Ser Thr Arg Gln Ser Gln Ser Thr Glu
148          275          280          285
149 Ala Ser Ala Ser Asn Arg Phe Ser Asn Asp Ser Gln Leu His Asp
150          290          295          300
151 Arg Trp Thr Phe
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155 <211> LENGTH: 178
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159 <220> FEATURE:
160 <221> NAME/KEY: misc_feature
161 <223> OTHER INFORMATION: Incyte ID No: 082843CD1
163 <400> SEQUENCE: 4

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Input Set : A:\pf0509usn\_subseqlist.txt

Output Set: N:\CRF4\10032002\I674743B.raw

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164 Met Pro Lys Ala Lys Gly Lys Thr Arg Arg Gln Lys Phe Gly Tyr
165 1 5 10 15
166 Ser Val Asn Arg Lys Arg Leu Asn Arg Asn Ala Arg Arg Lys Ala
167 20 25 30
168 Ala Pro Arg Ile Glu Cys Ser His Ile Arg His Ala Trp Asp His
169 35 40 45
170 Ala Lys Ser Val Arg Gln Asn Leu Ala Glu Met Gly Leu Ala Val
171 50 55 60
172 Asp Pro Asn Arg Ala Val Pro Leu Arg Lys Arg Lys Val Lys Ala
173 65 70 75
174 Met Glu Val Asp Ile Glu Glu Arg Pro Lys Glu Leu Val Arg Lys
175 80 85 90
176 Pro Tyr Val Leu Asn Asp Leu Glu Ala Glu Ala Ser Leu Pro Glu
177 95 100 105
178 Lys Lys Gly Asn Thr Leu Ser Arg Asp Leu Ile Asp Tyr Val Arg
179 110 115 120
180 Tyr Met Val Glu Asn His Gly Glu Asp Tyr Lys Ala Met Ala Arg
181 125 130 135
182 Asp Glu Lys Asn Tyr Tyr Gln Asp Thr Pro Lys Gln Ile Arg Ser
183 140 145 150
184 Lys Ile Asn Val Tyr Lys Arg Phe Tyr Pro Ala Glu Trp Gln Asp
185 155 160 165
186 Phe Leu Asp Ser Leu Gln Lys Arg Lys Met Glu Val Glu
187 170 175
189 <210> SEQ ID NO: 5
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192 <213> ORGANISM: Homo sapiens
194 <220> FEATURE:
195 <221> NAME/KEY: misc_feature
196 <223> OTHER INFORMATION: Incyte ID No: 322349CD1
198 <400> SEQUENCE: 5
199 Met Ala Arg His Gly Leu Pro Leu Leu Pro Leu Leu Ser Leu Leu
200 1 5 10 15
201 Val Gly Ala Trp Leu Lys Leu Gly Asn Gly Gln Ala Thr Ser Met
202 20 25 30
203 Val Gln Leu Gln Gly Gly Arg Phe Leu Met Gly Thr Asn Ser Pro
204 35 40 45
205 Asp Ser Arg Asp Gly Glu Gly Pro Val Arg Glu Ala Thr Val Lys
206 50 55 60
207 Pro Phe Ala Ile Asp Ile Phe Pro Val Thr Asn Lys Asp Phe Arg
208 65 70 75
209 Asp Phe Val Arg Glu Lys Lys Tyr Arg Thr Glu Ala Glu Met Phe
210 80 85 90
211 Gly Trp Ser Phe Val Phe Glu Asp Phe Val Ser Asp Glu Leu Arg
212 95 100 105
213 Asn Lys Ala Thr Gln Pro Met Lys Ser Val Leu Trp Trp Leu Pro
214 110 115 120
215 Val Glu Lys Ala Phe Trp Arg Gln Pro Ala Gly Pro Gly Ser Gly

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TIME: 10:37:48

Input Set : A:\pf0509usn\_subseqlist.txt

Output Set: N:\CRF4\10032002\I674743B.raw

216	125	130	135
217 Ile Arg Glu Arg Leu Glu His Pro Val Leu His Val Ser Trp Asn			
218	140	145	150
219 Asp Ala Arg Ala Tyr Cys Ala Trp Arg Gly Lys Arg Leu Pro Thr			
220	155	160	165
221 Glu Glu Glu Trp Glu Phe Ala Ala Arg Gly Gly Leu Lys Gly Gln			
222	170	175	180
223 Val Tyr Pro Trp Gly Asn Trp Phe Gln Pro Asn Arg Thr Asn Leu			
224	185	190	195
225 Trp Gln Gly Lys Phe Pro Lys Gly Asp Lys Ala Glu Asp Gly Phe			
226	200	205	210
227 His Gly Val Ser Pro Val Asn Ala Phe Pro Ala Gln Asn Asn Tyr			
228	215	220	225
229 Gly Leu Tyr Asp Leu Leu Gly Asn Val Trp Glu Trp Thr Ala Ser			
230	230	235	240
231 Pro Tyr Gln Ala Ala Glu Gln Asp Met Arg Val Leu Arg Gly Ala			
232	245	250	255
233 Ser Trp Ile Asp Thr Ala Asp Gly Ser Ala Asn His Arg Ala Arg			
234	260	265	270
235 Val Thr Thr Arg Met Gly Asn Thr Pro Asp Ser Ala Ser Asp Asn			
236	275	280	285
237 Leu Gly Phe Arg Cys Ala Ala Asp Ala Gly Arg Pro Pro Gly Glu			
238	290	295	300
239 Leu			
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243 <211> LENGTH: 250			
244 <212> TYPE: PRT			
245 <213> ORGANISM: Homo sapiens			
247 <220> FEATURE:			
248 <221> NAME/KEY: misc_feature			
249 <223> OTHER INFORMATION: Incyte ID No: 397663CD1			
251 <400> SEQUENCE: 6			
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253 1 5 10 15			
254 Trp Pro Gln Lys Pro Gln Cys His Gly Ser Gly Val Ile His Gly			
255 20 25 30			
256 Asn Ser Pro Leu Cys Pro Asn Trp Gln Val Phe Pro Leu Val Arg			
257 35 40 45			
258 Pro His Arg Gln Ser Arg Gln Leu Gln Val Pro Glu Pro Ile Gln			
259 50 55 60			
260 Ala Gly Gly Pro Ser Cys Gly His His Ser Pro Trp Arg Leu Phe			
261 65 70 75			
262 Leu Pro Gln Arg Lys Ser Gln Val Ser Arg Gly Gly Arg Leu Ala			
263 80 85 90			
264 Cys Leu Leu Ser Tyr Ala Gly Leu Ser Gly Asp Asp Pro Asp Leu			
265 95 100 105			
266 Gly Pro Ala His Val Val Thr Val Ile Ala Arg Gln Arg Gly Asp			
267 110 115 120			
268 Gln Leu Val Pro Phe Ser Thr Lys Ser Gly Asp Thr Leu Leu Leu			

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/674,743BDATE: 10/03/2002  
TIME: 10:37:49Input Set : A:\pf0509usn\_subseqlist.txt  
Output Set: N:\CRF4\10032002\I674743B.rawPlease Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:23; Xaa Pos. 335  
Seq#:38; Xaa Pos. 12,57  
Seq#:67; N Pos. 1022,1023,1024,1028,1034,1036,1038,1039,1041,1049,1052,1053  
Seq#:67; N Pos. 1055,1062,1064,1072,1075,1083,1086,1087,1093,1100,1101  
Seq#:68; N Pos. 1460,1461,1462,1463,1464,1475,1502,1510,1535,1550,1554,1562  
Seq#:68; N Pos. 1577,1594,1595,1599,1601,1602,1605,1611,1622,1627  
Seq#:73; N Pos. 12,15,17,1675,1687,1702,1709,1712,1715,1717,1722,1732,1733  
Seq#:73; N Pos. 1737,1747,1752,1753,1754,1757,1759,1764,1769,1787  
Seq#:77; N Pos. 1106,1112,1137,1164,1165,1168,1171,1173,1181,1187,1190,1191  
Seq#:77; N Pos. 1194,1201,1202,1215,1248,1249,1258,1259,1297,1298,1309,1310  
Seq#:77; N Pos. 1311  
Seq#:78; N Pos. 1057  
Seq#:81; N Pos. 1280,1283,1284,1285,1288,1289,1290,1291,1294,1295,1298,1299  
Seq#:81; N Pos. 1300,1306,1310,1312,1313,1314,1317,1319,1320,1322  
Seq#:82; N Pos. 1346,1347,1351,1356,1362,1368,1374,1381,1382,1394,1395,1399  
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Seq#:82; N Pos. 1468,1477,1478,1480,1481,1485,1488,1489,1496,1497,1498,1499  
Seq#:82; N Pos. 1500,1501,1504,1505,1524,1528,1530,1533,1537,1538,1539,1545  
Seq#:82; N Pos. 1562,1571  
Seq#:84; N Pos. 2230,2231,2232,2233,2234,2235,2236,2237,2238,2239,2240,2241  
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Seq#:84; N Pos. 2278,2279,2280,2281,2282,2283,2284,2285,2286,2287,2288,2289  
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Seq#:88; N Pos. 1429  
Seq#:98; N Pos. 2340  
Seq#:99; N Pos. 4,6,20,65,114,127,140,149,162,188,204,216,221,232,274,282  
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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/674,743B

DATE: 10/03/2002  
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Output Set: N:\CRF4\10032002\I674743B.raw

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Seq#:113; N Pos. 531  
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Input Set : A:\pf0509usn\_subseqlist.txt

Output Set: N:\CRF4\10032002\I674743B.raw

L:18 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:1242 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:330  
L:2086 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0  
L:2092 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:45  
L:3671 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67 after pos.:1020  
L:3672 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67 after pos.:1080  
L:3714 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68 after pos.:1440  
L:3715 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68 after pos.:1500  
L:3716 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68 after pos.:1560  
L:3717 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68 after pos.:1620  
L:3948 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:0  
L:3975 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:1620  
L:3976 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:1680  
L:3977 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:1740  
L:4130 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77 after pos.:1080  
L:4131 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77 after pos.:1140  
L:4132 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77 after pos.:1200  
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L:4167 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78 after pos.:1020  
L:4281 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81 after pos.:1260  
L:4282 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81 after pos.:1320  
L:4324 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82 after pos.:1320  
L:4325 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82 after pos.:1380  
L:4326 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82 after pos.:1440  
L:4327 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82 after pos.:1500  
L:4328 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82 after pos.:1560  
L:4438 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84 after pos.:2220  
L:4439 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84 after pos.:2280  
L:4461 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84 after pos.:3600  
L:4462 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84 after pos.:3660  
L:4463 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84 after pos.:3720  
L:4464 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84 after pos.:3780  
L:4465 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84 after pos.:3840  
L:4466 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84 after pos.:3900  
L:4634 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:88 after pos.:1380  
L:5117 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:98 after pos.:2280  
L:5136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:99 after pos.:0  
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L:5138 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:99 after pos.:120  
L:5139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:99 after pos.:180  
L:5140 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:99 after pos.:240  
L:5141 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:99 after pos.:300  
L:5303 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:103 after pos.:0  
L:5304 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:103 after pos.:60  
L:5307 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:103 after pos.:240  
L:5650 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:1920  
L:5652 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:2040  
L:5653 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:2100



## VERIFICATION SUMMARY

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TIME: 10:37:49

Input Set : A:\pf0509usn\_subseqlist.txt

Output Set: N:\CRF4\10032002\I674743B.raw

L:5765 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:113 after pos.:480  
L:6154 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:123 after pos.:0  
L:6155 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:123 after pos.:60